

ENZELTOWSKI, Z.

Some remarks on a proposed metallurgic dictionary of plastic treatment and forging.

p. 379. Coke production and coke chemistry. p. 380.

HUTNIK, Vol. 22, No. 10 October, 1955
(Panstwowe Wydawnictwa Techniczne) Katowice

SOURCE: EAST EUROPEAN ACCESSIONS LIST Vol. 5, No. 1 Jan. 1956

18(5)

POI/39-26-6-3/9

AUTHOR: Krzekotowski, Zenon, Engineer

TITLE: Basic Technical Problems of Heavy Forging Production

PERIODICAL: Hutnik, 1959, Vol 26, Nr 6, pp 223-237 (Poland)

ABSTRACT: In order to save production cost of steel forgings and to conserve materials, only the technological sections of foundries and plants should decide what kind of steel is to be used for the production of a certain forging, and not the ordering person or agency. This is justified by the fact, that only the representative of such a section could be considered able to fairly determine all the factors for economical production, on the basis of experience and in consideration of all pertinent data. The producing plant alone is in position to determine all individual steps of production while the ordering agency would just have to give the expected specifications, which a certain forged piece would have to meet. The technological section of the plant would have to decide then, to which category of forgings the respective piece would belong. The

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Basic Technical Problems of Heavy Forging Production


efficiency of Polish operating presses is not as high as desired. The reason for it is the low degree of mechanization of presses and insufficient equipping of them with necessary furnaces. There are not even manipulators, while an analysis of British presses revealed, that the use of manipulators increase production of the presses by 400%. The only explanation for not having installed those manipulators for Polish presses could be the lack of space in old plants, as modernization would be connected with the installation of additional furnaces. Poor equipping of Polish plants with secondary equipment and tools is another reason for poor qualitative production. Establishing of a proper way to cool down heavy forgings requires theoretical knowledge and could be considered the highest qualification of a skilled technologist. The greatest material losses occur due to the creation of flakes. As a basis for this process the CTP method should be adopted thoroughly, which is built up on

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the basis: time of duration of cooling down, and temperature at the beginning of cooling process. Here it has to be considered, that normally 800-900°C are assumed as the beginning temperature, which unfortunately does not meet the requirements as the highest temperature, which the respective piece of material was subjected to during forging, would have to be taken. When processing steel 35 HN 3M the time of cooling down from 1,200°C (highest temperature subjected to) is approximately 65 hours, which would be estimated at 42 hours only, if 800°C are taken as the starting temperature. A large part of cooling costs could be saved, if pieces of a certain size could be cooled in ashes or sand, thus avoiding costly operation of furnaces while cooling down. Well embedded in sand the speed of cooling down would not exceed 6°/min, which is lower as the normally assumed speed of 10-20°/min. This method would ease furnace operations by approximately 50% of their whole operating time,



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Basic Technical Problems of Heavy Forging Production

or, conserve about 220 million zlotys per annum. This suggested way of cooling down forgings is especially being implemented in Western Germany, where the cooling process sometimes takes several weeks. There are 9 diagrams, 4 tables, 9 graphs, 1 photograph and 10 references 1 of which is Polish, 5 Soviet, 1 French and 3 German

ASSOCIATION: Huta Baildon - Katowice (Foundry Shop Baildon-Katowice

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18(5), 25(5)

AUTHOR: Krzekotowski, Zenon, Engineer

POL/30-26-6-5/9

TITLE: Yields in Hammer Forgings Output and Planned Modernization of the Polish Standard PN/H-94101

PERIODICAL: Hutnik, 1959, Vol 26, Nr 6, pp 245-251 (Poland)

ABSTRACT: When comparing Polish forgings with the Soviet standard GOST 7062-54 the conclusion must be reached, that Polish workers are not doing a worse job than their comrades in the Soviet Union, Technically, i.e. as far as exactness of dimensions of delivered pieces are concerned, they do at least maintain the same kind of level. But still the complaints against Polish standards PN/H- 94101 seem to be justified; and here not the individual work performance of foundries are concerned, but plain tariff considerations. At present a foundry is interested in delivering by weight. The more kilograms are sold, the more money is paid. All the arguments against the presently valid standard PN/H 94101, and also all pertinent factors have been screened. It is intended to improve and modify provi-

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Yields in Hammer Forgings Output and Planned Modernization Of the Polish Standard PN/H-94101

sions of this standard as follows: a) Designation of two different fields for forging: forging by hammer and by presses; b) Reducing of the number of norm-tables to two basic ones, thus allowing a certain tolerance; c) Change of the basis for classification of forgings with regards to degree of difficulty of their production and excluding certain highly valuable forgings from applicability of standard at all; d) Improvisions interesting the operating foundrymen in conserving expensive material. When modifying the standards, criteria will be observed to apply methods in forging, which guarantee the best possible quality at the lowest possible costs. Total costs consists of material and costs of forging including all subsidiary processing. There are 9 diagrams and 2 tables

Card 2/2



KRZELJ, K.

World maritime news. Medun transp 7 no.11:1017-1021 N '61.

(Shipping) (Navigation)

KRZELJ, K.

Maritime news in the world. Medun transp 7 no.12:1107-1112 D '61.

KRZEJ, K.

Highlights of world maritime affairs. Mejun transp 8 no.1:22-26
Ja '62.

KRZELJ, K.

Maritime news in the world. Medun transp 8 no.2:94-97
F '62.

KRZELJ, K.

Thw world shipping news. Medun transp 8 no.4:256-258 Ap
162.

KRZELJ, K.

The F.O.B. clause and difficulties for its application. Medun
transp 8 no.6:422-424 Je '62.

KRZELJ, K.

Maritime news in the world. Medun transp 8 no.7:489-491 J1 '62.

~~KSHENETSKI, Aleksandr~~ [Krszemenecki, A.], inzh.

Development of research on Polish railroad transportation.
Zhel.dor.transp. 41 no.7:34-37 J1 '59. (MIRA 12:12)

1. Direktor Tsentral'nogo nauchno-issledovatel'skogo instituta
razvitiya tekhniki na sheleznodorozhnom transporte, Varshava.
(Poland--Railroad research)

KRZEMICKA, Jacqueline

17-Ketosteroids and 17-hydroxysteroids in human, rabbit and rat urine.
I. Zimmermann's chromogene in urine samples before and after oxidation
by chronic acid. Acta biochim. polon 4 no.3:187-201 1957.

1. Z Instytutu Onkologii w Gliwicach Zakład Biologii Nowotworów
Kierownik: prof. dr K. Dux.

(17-KETOSTEROIDS, in urine

determ. by chronic acid oxidation combined with Zimmermann's
color reaction (Pol))

(STEROIDS, in urine

17-hydroxysteroids, determ. by chronic acid oxidation
combined with Zimmermann's color reaction (Pol))

KRZEMICKA, Jacqueline

17-ketosteroids and 17-hydroxycorticosteroids in human, rabbit and rat urine. II. Chromatographic separation of neutral 17-ketosteroids. Acta biochem. polon. 5 no.3:201-211 1958.

1. Z Instytutu Onkologii w Gliwicach Zakład Biologii Nowotworów Kierownik: prof. dr K. Dux.

(17-KETOSTEROIDS, in urine,
chromatography (Pol))

PODAND/Chemical Technology. Chemical Products H
and Their Applications. Industrial
Organic Synthesis.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20401

Author : Czarnota, Tadeusz; Orłowski, Jan;
Krzemicki, Kazimierz

Inst :
Title : Oxidation of Anthracene to Anthraquinone
by a Contact Fluidal Method.

Orig Pub : Przem. chem., 1958, 37, No 3, 167-172

Abstract : Experiments were conducted on a large laboratory scale for the catalytic oxidation of anthracene (I) to anthraquinone (II) in a suspended layer. Contacts (C) of two types were used: impregnated (IC) and fused

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POLAND/Chemical Technology. Chemical Products
and Their Applications. Industrial
Organic Synthesis.

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Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20401

(FC). For the preparation of IC, large porous silica gel is washed several times with water (the last time with distilled water), dried at 150°, pulverized, and the 0.4-0.8 mm fraction sifted. $\text{Fe}_2(\text{SO}_4)_3$ and K_2SO_4 solutions are added to a VOSO_4 solution in a quantity, respectively, of 20 and 0.5 or 10 percent of the content of V_2O_5 and diluted with water to concentration of about 40 g/l of V_2O_5 . The carrier is saturated with the prepared solution, dried at 90-100° and the saturation repeated to absorption by the carrier of a solution in

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POLAND/Chemical Technology. Chemical Products
and Their Applications. Industrial
Organic Synthesis.

H

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20401

a quantity which corresponds to a content
of V_2O_5 of about 25 percent of the weight
of the carrier. After the last drying, C
are put into a reactor and heated at 450-500°
with air flow at the rate of about 0.5 m/sec.
Heating continues until full decomposition
of $VOSO_4$ (disappearance of SO_2 in the waste
gases, time of decomposition 7-10 hours). To
prepare FC, the sifted carrier (0.4-0.8 mm)
is carefully blended with a pulverized cata-
lytic active substance (V_2O_5 and different
quantities of Fe_2O_3) in a ratio of 1:0.1-0.3
(for C in corundum) or 1:1 (for C in active

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POLAND/Chemical Technology. Chemical Products
and Their Applications. Industrial
Organic Synthesis.

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Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20401

Al_2O_3). The mixture is put into an electric furnace and heated with periodic mixing before fusing of the oxides (700-980°, depending on the content of Fe_2O_3), then the temperature is raised by about 500° and maintained for 1 hour, mixing for 5 minutes. C are cooled during mixing, sifted and activated for 2 hours at 500° in a suspended layer. Dust of V_2O_5 is obtained by thermic decomposition of NH_4VO_3 . To obtain homogenous mixtures of V_2O_5/Fe_2O_3 they are mixed, alloyed and the solid alloy is crushed. Grains of the size 0.4-0.3 mm can be

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POLAND/Chemical Technology. Chemical Products
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Organic Synthesis.

CIA-RDP86-00513R000826920014-9

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20401

also used as C without a carrier. The scheme and description of the setup for oxidation of I is cited, as well as the method of experiments. By using FC with about 50 percent V_2O_5 in Al_2O_3 , at 320-340° and time of contact 0.20 seconds, a yield of about 40 percent II was obtained (content of II in the product about 60 percent). The main admixture is phthalic anhydride (about 30 percent). During FC with V_2O_5 and Fe_2O_3 in corundum and without a carrier, high yields are obtained with good regularity of reaction. The best results

Card : 5/6

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KAZEMIECIECKI, ALEXANDER

!ierniki eksploatacyjne w kolejnictwie. (Wyd. 1.) Warszawa, Wydawn. Komunikacyjne,
1953, 194 p. (Factors in the operation of railroads, diagra., tables)

SC: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June.
1954, Uncl.

KRZEMIENIECKI, A.

KRZEMIENIECKI, A. Research laboratories for rolling stock of the French State Railways (SNCF). p. 292

Vol. 8, no. 8, Aug. 1956

PRZEGLAD KOLEJOWY

TECHNOLOGY

Warszawa, Poland

So: East European Accession, Vol. 6, no. 2, 1957

KRZEMIENIECKI, A.

New locomotives on the railroads of the USSR. p. 193

PRZEGLAD KOLEJOWY MECHANICZNY. (Wydawnictwa Komunikacyjne)
Warszawa, Poland.
Vol. 11, No. 7, July 1959

Monthly List of East European Accessions Index (EEAI), LG, Vol. 8, No. 11,
November 1959
Uncl.

KRZEMIENIECKI, A., mgr ins.

Combustion traction in Great Britain. Przegl kolej mechan
13 no.4:117-119 Ap '61.

KRZEMIENIECKI, A., mgr inż.

Modernization of the traction of the Polish State Railroads.
Przegl kolej mechan 14 no.1:13-15 Ja '62.

KRZEMIENIECKI, A., mgr. inż.

Trends in material economizing. Przegl kolej mechan 14 no.3:65-67
Mr '62.

KRZEMIENIECKI, A., mgr. inż.

Problems of modernization of the Polish State Railroads in
the Polish planning for 1961-1980. Przegl kolej mechan 14
no.4:97-100 Ap '62.

KRZEMIENIECKI, Aleksander

Diesel engine rolling stock of the Polish Railroads.
Przegl kolej mechan 14 no.6:161-165 Je '62.

1. Centralny Ośrodek Badań i Rozwoju Techniki Kolejnictwa, Warszawa.

KRZEMIENIECKI, Aleksander

Prospects for speed increase of passenger cars. Przegl kolej
mechan 16 [i.e. 15] no.4:109-110 Ap '63.

1. Centralny Ośrodek Badań i Rozwoju Techniki Kolejnictwa,
Warszawa.

KRZEMIENIECKI, Aleksander, mgr inż.

Future routes of the Polish State Railroads. Horyz techn 16
no.10:17-21 0 '63.

1. Dyrektor Centralnego Ośrodka Badań i Rozwoju Techniki Kolej-
nictwa, Warszawa.

KRZEMIENIECKI, Aleksander

Certification conditions for acceptance of combustion locomotives established by the Research Office of the International Union of Railways. Przegl kolej mechan 11 no.10:246-250 0 '64

1. Central Institute for Research and Development of Railway Techniques, Warsaw.

RAJ/21/11/541, 1.

Program for experimental research on the SH-61 locomotive.
locomotive. Prace i technika kolejowa 1981-1982, 1, 1-2.

1. Central Institute for Research and Development of Railway
Techniques, Warsaw.

KRZEMIENIECKI, M.

The experimental research organization of the railroads of the German Federal Republic. p. 380.

(PRZEGLAD KOLEJOWY. Vol. 8, no. 10, Oct. 1956, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

KRZEMIENIEWSKA, H.

H. Krzemioniewska, L. Badura: "Rzad: PYRENOMYCETES, Rodzina: Perisporiaceae,"
(Order: PYRENOMYCETES, Family: Perisporiaceae), Acta Societatis Botanicorum
Poloniae, Vol. XXIII, Nr 4, 1954.

KRZEMIENIEWSKA, Helena

Acrasieae. A monographic outline. Acta microb. polon 10 no.1:3-79 '61.

1. Z Instytutu Botaniki PAN w Krakowie.
(FUNGI)

KR2221208A, A.

1605. Polarographic determination of sulphate ion in glacial acetic acid. *V. V. Kozlov and V. V. Kozlovskaya (Dokl. Akad. Nauk SSSR, 1954, 28 (1), 125-126).*

The method has been designed to determine small amounts of SO_4^{2-} (up to 5.66×10^{-4} mole per litre) in pure glacial acetic acid. This is diluted with 3 times its weight of dist. water, and a known excess of standard $\text{Pb}(\text{NO}_3)_2$ soln. ($[\text{Pb}^{2+}] = 1.35 \times 10^{-2}$ mole per litre) is added. In order to render the PbSO_4 ppt. sufficiently insol., 90 per cent. ethanol is added until its concn. is 50 per cent. The Pb remaining in soln. is determined polarographically by the aid of specially designed calibration curves. The method is suitable for routine tests in the production of pure glacial acetic acid; its accuracy is $\pm 0.7 \times 10^{-4}$ mole of SO_4^{2-} per litre of acetic acid. A Heyrovský polarograph was used in the investigation, and the pure glacial acetic acid reagents examined were B.D.H.

"AnalaR" and Merck products. The SO_4^{2-} contents established were 0.00025 per cent. per litre for the first and 0.0004 per cent. per litre for the second; the guaranteed max. content was 0.0004 per cent. per litre for both.

H. BURSTEIN

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(2)

mjl

POLAND

STYCZYNSKA, B. and KRZEMINSKA, A., of the Disinfection, and Insect and Rat Control Department, State Hygiene Establishment (Zaklad Dezynfekcji, Dezynsekcji i Deratyzacji Panstwowego Zakladu Higieny), Warsaw. Doc. Dr. A. Bojanowska, Head.

"The Choice of Medium for the Laboratory Cultivation of Larvae of the Domestic Fly (*Musca Domestica* L.)"

Warsaw, Przeglad Epidemiologiczny, Vol 20, No 3, 1966, pp 325-330.

Abstract: Development of larvae of the domestic fly, *M. domestica* L., on three different media was studied: milk supplemented with cholesterol and Biovitana, milk with cholesterol and yeast, and pure milk. Pure milk substrate was found to be inadequate. The addition of cholesterol and Biovitana had a beneficial effect on all stages of development. Contains 3 Figures, 3 Tables and 11 references (1 Polish, 9 Western and 1 Russian).

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BRAGIEL, Irena; JASSER, Stefania; KOLAKOWSKA, Kazimiera; KRZEMD:SKA-LAWKOWICZOWA, Irena; POLUBIEC, Andrzej; ROSTKOWSKA, Jadwiga.

Studies on the behavior of the properdin and complement levels in diseases of the hematopoietic system. Pol. arch. med. wewnet. 33 no.12:1359-1367 '63.

1. Z Kliniki Hematologicznej Instytutu Hematologii i Katedry Hematologii SDL w Warszawie (kierownik: prof.dr.med. W.Lawkowicz) i z Pracowni Wassermanowskiej Instytutu Hematologii w Warszawie.

*

KRZEMINSKA-LAWKOWICZOWA, I.

Effect of dihydroergotamine on the circulatory system.

Polski tygod. lek. 6 no.17:558-569 23 Apr 1951. (CIAM 20:11)

1. Of the Second Clinic of Internal Diseases of Gdansk Medical Academy and of the Second Clinic of Internal Diseases (Head Prof. Maciej Semerau-Siemianowski, M.D.) of Warsaw Medical Academy.

KRZYMINSKA-LANKOWICZOWA, I.

Forty-years of medical scientific and didactic work of Prof. Dr. Maciej
Semerau-Siemianowski. Polski tygod. lek. 7 no. 19:577-591 12 May 1952.
(OIM 22:5)

KRZEMIŃSKA-LANKOWICZOWA, Izabela; ASKANAS, Edzislaw; TOLPA-MIEDZIŃSKA,
Mária; WAJEWSKA, Olga ; CZAJKA, Eugeniusz.

Electrokymography of the left ventricle in circulatory insufficiency during digitalis therapy. Kardiologia Polska 1 no.1-2:49-53 1954.

1. Z II Kliniki Chorob Wewnętrznych AM w Warszawie. Kierownik: prof. dr med. M. Semerau-Siemianowski.

(CONGESTIVE HEART FAILURE, therapy,
digitalis, electrokymography of left ventric.in)
(DIGITALIS, therapeutic use,
congestive heart failure, electrokymography
of left ventric. in)
(ELECTROKYMOGRAPHY,
of left ventric. in congestive heart failure in
digitalis ther.)

KRZEMIŃSKA-LAWKOWICZOWA, Izabela

Last years of cooperation with professor Mściwoj Semerau-Siemianowski. Kardiol. polska 1 no.3-4:17-21 1955.

(OBITUARIES,
Semerau-Siemianowski, Mściwoj (kol))

KRZEMINSKA-LANKOWICZOWA, Isabela; MAJEWSKA, Olga; TOLPA-MIEDZINSKA, Maria;
CZAJKA, Eugeniusz (Warszawa)

Electrokymographic picture of congenital heart diseases;
preliminary report. Kardiologia Polska 1 no.3-4:42-50 1955.

(KYMOGRAPHY, in various diseases,
cardiovasc. defects, congen. (Pol))
(CARDIOVASCULAR DEFECTS, CONGENITAL, diagnosis,
kymography (Pol))

POLAND/Human and Animal Physiology - (Normal and Pathological). T
Blood Circulation. Heart.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17441

Author : Bober, Stanislaw; Nieciubowicz, Jan; Justyna, Mieczyslaw;
Krzeminska-Lawkowiczowa, Isabella; Marazinek, Boleslaw

Inet : -

Title : The Changes of Electrocardiogram in Experimental Hypo-
thermia in Dogs.

Orig Pub : Polski tygod lekar., 1957, 12, No 1, 1-7

Abstract : In 34 dogs in the state of hypothermia (minimum body
temperature 16°), there were noted: bradycardia (to 20-
30 per 1 min under 16°); lengthening of electric systole
of ventricles; initial increase and subsequent decrease,
dilatation and splitting of precordial waves; lengthen-
ing of PQ interval and QRS complex; elevation of the ST
segment; and concave, dome-like and prolonged T-wave.
In accordance with the deepening of hypothermia, there

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POLAND/Human and Animal Physiology - (normal and Pathological). T
Blood Circulation. Heart.

Abs Jour : Ref Zhur Biol., No 4, 1959, 17441

were noted precordial nodal or ventricular extrasystoles,
shifting of the rhythm pace-maker, appearance of bunches
of extrasystoles, flutter and fibrillation of ventricles.
Increased excitability of myocardium was confirmed dur-
ing surgery, when touching the heart induced the begin-
ning of ventricular fibrillation. The discovered changes
point to acute biochemical disturbances in the heart in
hypothermia. -- S.Ya. Marmorshteyn

Card 2/2

KRZEMINSKA-LAEKOWICZOW, IZABELLA

BOBER, Stanislaw.; NIELUBOWICZ, Jan.; JUSTYMA, Mieczyslaw.; KRZEMINSKA-LAEKOWICZOW, Izabella.; MARZINEK, Boleslaw.

Behavior of blood electrolytes in experimental hypothermia in dogs.
Polski tygod. lek. 12 no.17:627-631 22 Apr 1957.

1. Z Pracowni Chirurgii Doswiadczalnej; kierownik doc. dr med. J. Nielubowicz z Instytutu Patomorfologii Polskiej Akademii Nauk; dyrektor: prof. dr nauk med. L. Paszkiewicz oraz z I Kliniki Chorob Wewnętrznych A. M. Kierownik: prof. dr nauk med. A. Biernacki, Warszawa-autora: Warszawa-Okęcie, ul. Kazimierza Wielkiego 20.

(HYPOTHERMIA, exper.

blood electrolytes in dogs (Pol))

(ELECTROLYTES, in blood

in hypothermia in dogs (Pol))

BOBER, Stanislaw; NIELUBOWICZ, Jan; MIECZYSLAW, Justyna; KRZEMINSKA-LAWKOWICZOWA, Izabella; MARZINEK, Boleslaw

Volume of circulating blood in experimental hypothermia in dog.
Polski tygod. lek. 12 no.10:346-348 4 Mar 57.

1. (Z Pracowni Chirurgii Doświadczalnej; kierownik: doc. dr. med. J. Nielubowicz, Zakładu Patomorfologii Polskiej Akademii Nauk; dyrektor: prof. dr. nauk med. L. Paszkiewicz oraz z I Kliniki Chorob Wewnętrznych A.M. w Warszawie; Kierownik: prof. dr. nauk med. A. Biernacki). Adres: Warszawa-Okęcie, ul. Kazimierza Wielkiego 20.

(HYPOTHERMIA, exper.

determ. of circ. volum in dog. (Pol))

(BLOOD CIRCULATION, determ.

circ. volume in exper. hypothermia in dog (Pol))

POLAND/Human and Animal Physiology (Normal and Pathological).
Circulation. Blood.

T-4

Abs Jour : Ref Zhur - Biol., No 16, 1958, 74721

Author : Bober, Stanislaw; Nielubowicz, Jan; Justyna, Mieczyslaw;
Krzeninska-Lawkowiczowa, Izabella; Marzinek, Boleslaw

Inst :

Title : Volume of Circulating Blood During Experimental Hypothermia
in Dogs.

Orig Pub : Polski Tygod. lekar., 1957, 12, No 10, 346-348

Abstract : In 10 dogs the quantity of circulating blood was determined
by the dye dilution method. It comprised on the average
125 ml/kg. After cooling of 7 dogs to 28° it decreased to
92, but with cooling to 20° - to 88 ml/kg. Author's resu-
me.

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KRZEMINSKA-LAWKOWICZOWA, Izabela; MARZINEK, Boleslaw

BOBER, Stanislaw; NIELUBOWICZ, Jan; JUSTYNA, Mieczyslaw;
KRZEMINSKA-LAWKOWICZOWA, Izabela; MARZINEK, Boleslaw

Behavior of plasma proteins in experimental hypothermia in
dogs. Polski tygod. lek. 12 no.15:543-545 8 Apr 57.

1. (Z Pracowni Chirurgii Doswiadczalnej; kierownik: doc. dr. med.
J. Nielubowicz, Instytutu Patomorfologii Polskiej Akademii Nauk;
dyrektor: prof. dr. nauk med. L. Paszkiewicz oraz z I Kliniki
Chorob Wewnętrznych A.M.; kierownik: prof. dr. nauk med.
A. Biernacki). Adres: Warszawa. Okęcie, ul. Kasimierza Wielkiego
20.

(BLOOD PROTEINS
eff. of hypothermia in dogs (Pol))
(HYPOTHERMIA, eff.
on blood proteins in dogs (Pol))

IAWKOWICZ, Wlodzimierz; KRZEMINSKA-IAWKOWICZOWA, Izabella

Certain hematological aspects; scientific trip to France, Italy
and Morocco. Polski tygod. lek. 12 no.49:1915-1918 concl. 9 Dec 57.

(HEMATOLOGY,
in France, Italy ' Morocco (Pol))

KRZEMINSKA-LAWKOWICZOWA, Izabela; LAWKOWICZ, Włodzisław; CZAJKA, Eugeniusz

Studies on cytomorphology of the spleen in lower vertebrates. Polskie
arch. med. wewn. 29 no.3:380-383 1959.

1. Prace wykonano na materiale krajowych ryb słodkowodnych oraz ryb
morskich uzyskanych w Stacji Biologii Morskiej w Marsylii. Dyrektor:
prof. M. Picard oraz w Stacji Zoologii w Neapolu Dyrektor: prof.
dr R. Dohrn. Adres autora: W-wa, ul. Filtrów 62.

(FISH,
spleen cytomorphol. (Pol))
(SPLEEN, anat. & histol.
cytomorphol. in fish (Pol))

POLAND

LANKOWICZ, Wlodzimierz; KRZEMIŃSKA-LANKOWICZOWA, Izabela; PANASEWICZ, Jozef; SNIGUROWICZ, Jaroslaw; KRAJ, Maria; ROSTKOWSKA, Jadwiga; ZIELINSKI, Jacek and MAJEWSKA, Zofia; Chair of Hematology of Postgraduate Medical Courses, Academy of Medicine and Hematology Clinic of Institute of Hygiene (Katedra Hematologii Stud. Dosl. Lek. AM i Klinika Hematologii III,) Head (Kierownik) Prof Dr W. LANKOWICZ; and Department of Physiopathology, Institute of Hygiene (Zaklad Fizjopatologii III) Head Docent Dr J PANASEWICZ, Warsaw.

"Comparative Studies of Human Blood Proteins and Those of Experimental Animals"

Warsaw, Medycyna Doswiadczalna i Mikrobiologia, Vol 18, No 1, 1966; pp 83-88.

Abstract [English summary modified] : When studied by the same method, rabbits' serum proteins were more similar to human ones than those of rats or guinea pigs. Total proteins, erythrocyte sedimentation rates and haptoglobin levels were all lower in the animals than in man. Table, 2 electrophoregrams; 9 Polish and 1 Western reference.

K. P. Z. MINSKI, A.

545.33:546.22

3155

Kemula W., Krzemiński A. Polarographic determination of SO_4^{--} in
Glacial Acetic Acid.

„Polarograficzne oznaczanie SO_4^{--} w bezwodnym kwasie octowym”.
Roczniki Chemii (PAN), No. 1, 1951, pp. 125–131, 3 figs.

A polarographic method for determining SO_4^{--} in glacial acetic acid has been devised. A known amount of $\text{Pb}(\text{NO}_3)_2$ solution was added in excess to the examined quantity of acetic acid, and after precipitation of PbSO_4 in a 50% ethanol solution the remaining Pb^{++} was determined polarographically. The corresponding calibration curves make this method convenient for serial determination in production tests. The precision of determinations is 0.7–10.5 mole SO_4^{--} in one litre of glacial acetic acid.

17-204

KRZEMIŃSKI, A.

Krzemiński A. Polish-Designed Wire Drawing Machine.

"Uzgodzi do drutu produkcji krajowej" Hutażka No. 11, 1959, 140.
195-197, 1 fig., 2 tabs.

Technical description, characteristics, and comments on the production of the Polish constructed CHB-50 single-drum wire drawing machine with 600 mm drum. The machine is designed for the rough drawing from rods of 8 mm or 9 mm steel wire having a carbon content of 0.2 per cent. The speed of operation is 0.62 metres per second. The machine also contains diagrams and description of the characteristics of the per cent. The speed of operation is 0.62 metres per second. The machine is a CHB-50 six-drum machine with 600 mm drum, designed for rough and intermediate drawing, from 5.5 diameter rod, of 2.4 or 2.2 mm diameter steel wire. The low drawing speed and considerable weight of this machine (as compared with the Malmedy-type machine) is a drawback, but the advantages of the machine lie in its being compact, simple, provided with an individual drive which enables a more rational use to be made of the power factor, and in its incorporation of an efficient lubricating system.

MW

KRZEMIŃSKI, A.

Modern mills for wiremaking.

p. 324
Vol. 22, no. 9, Sept. 1955
HUTNIK
Katowice

SO: Monthly List of East European Accessions (EEAL), LC, Vol. 5, no. 2
Feb. 1956

KRZEMINSKI, A.

Improvements in the heating of gas furnaces for the patenting of wire.

p. 332
Vol. 22, no. 9, Sept. 1955
HUTNIK
Katowice

SO: Monthly List of East European Accessions (FEAL), LC, Vol. 5, no. 2
Feb. 1956

KRZEMINSKI, A.

KRZEMINSKI, A. Wiredrawing machines of home production. p. 362. HUTNIK.
Katowice, Poland. Vol. 9, No. 4, Apr. 1956

SOURCE: East European Accessions List (EEAL) LC Vol. 5, No. 6, June 1956

KRZEMINSKI, A.

Polish wiredrawing machines. p. 251.

PRZEBUD MECHANICZNY. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich)
Warszawa, Poland. Vol. 17, no. 5, May 1958.

Monthly List of East European Accessions (FFAI) LC, Vol. 9, no. 2, Feb. 1959.
Uncl.

KRZEMINSKI, Bogdan

Geology and landscape within the Upper Silesian Coal Basin.
Wiadom gorn 11 no. 11:419-420 N '60.

KRZEMINSKI, Czeslaw, kapitan dyplomowany

"Development of tactics in the Soviet Army in the Great National War 1941-1945", a collective work. Reviewed by Czeslaw Krzeminski. Wojsk przegl 13 no.8:91-93 Ag '60.

KRZEMINSKI, H.: KONCZAREK, J.

Analysis of operating an intercommunication system on a construction site. P 51

BUDOWNICTWO PRZEMYSLOWE. (Ministerstwo Budownictwa) ^{POLAND} Warszawa / Vol. 6, no. 1,
Jan. 1957

Monthly List of East European Accessions (EEAI) LC. Vol. 7, no. 7, July 1959

Uncl.

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KRZEMINSKI, J.

"Reinforced-Concrete Shell Structures for Roofing", a scientific conference in Oslo, July 1-3, 1957.

p. 1 (Budownictwo Przemyslowe) Vol. 6, no. 12, Dec. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4.
April 1958

KUZEMINSKI, J.

New types of prefabricated roofing.

P. 123 (Inżynieria i Budownictwo. Vol. 14, no. 3, Mar. 1957, Warszawa, Poland)

Monthly Index of East European Accessions (EFAI) LC. Vol. 7, no. 2,
February 1958

KRZEMINSKI, J.; ZALEWSKI, W.

Diaphragms of cylindrical shells. p. 155.

(INZYNIERIA I BUDOWNICTWO, Vol. 14, No. 4, Apr. 1957, Warszawa, Poland.)

SO: Monthly List of East European Accessions (FEAL) Lc. Vol. 6, No. 10, October 1957. Uncl.

KRZEMIŃSKI, J.

New applications of the theory of polygonal vaults for computing any shell of cylindrical vaults.

P. 137, (Inżynieria i Budownictwo. Vol. 14, no 3, Mar. 1957, Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

DAHLEG, Wl.; ERZEMINSKI, J.; DIEM, T.

Method of producing polyethylene drains for surgical purposes.
Polimery tworzywa wielk 10 no.2:66-71 F '65.

1. Department of Organic Technology I of the Warsaw Technical
University. Submitted November 25, 1964.

ATTENTION: KREZDINSKI, J. (Warsaw)

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Krzeminski
POLAND/Chemical Technology - Chemical Products and Their
Application, Part 3. - Treatment of Natural Gases
and Mineral Oil, Motor and Rocket Fuel, Lubricants.

H-22

Abs Jour : Ref Zhur - Khimiya, No 7, 1958, 22723

Author : J.L. Krzeminski

Inst : _____

Title : Cleaning of Lubrication Oil with Magnetic Filters.

Orig Pub : Przegl. mech., 1957, 16, No 2, 65-66

Abstract : Description and sketches of a industrial magnetic filter
for cleaning used lubrication oil of metallic (ferro-ma-
gnetic) impurities. The results of a filter test at the
oil feeding rate of up to 20 lit per min. are presented;
the purification degree was 70% at the rate of 7.5 lit
per min.

Card 1/1

KRZEMINSKI, Stanislaw

Are there cosmic influences on the menstruation? Pol. tyg.
lek. 19 no.31:1185-1188 3 Ag'64

1. Z Poradni Cyto-Ginekologicznej w Gzestochowie; kierownik:
lek. St. Krzeminski.

BARBARINA, T.M.; BOBYR', N.F.; BUTT, L.M.; VEL'KOVSKIY, V.N.;
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YEREMIN, I.A.; ZEZH, V.G.; KEVESH, P.D.; KOCHAROV, E.P.;
KOSYREVA, Z.S.; LEVIN, S.N.; MAKHNOVICH, A.T.; MERZLYAK,
A.N.; RODOV, E.S.; ROZHNOV, A.I.; SEREBRYANSKAYA, B.I.;
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L.M.; ETIN, A.O.; YAKHONTOVA, N.Ye.; KITAYTSEV, Vladimir
Andreyevich, prof., doktor tekhn. nauk, red.; SKRAMTAYEV,
B.G., glav. red.; TROKHIMOVSKAYA, I.P., zam. glav. red.;
KRAVCHENKO, I.V., red.; KITAYGORODSKIY, I.I., red.;
KRZHEMINSKIY, S.A., red.; ROKHVARGER, Ye.L., red.; BALAT'YEV, P.K.
red.

[Manual on the manufacture of heat insulating and acous-
tical materials] Spravochnik po proizvodstvu teploizo-
liatsionnykh i akusticheskikh materialov. Moskva, Stroi-
izdat, 1964. 524 p. (MIRA 18:1)

KRZEMIŃSKI, W.

"Standardized packing of footwear." (P. 40) PRZEGLĄD SKORZANY
(Centrałne Zarząd Przemysłu Garbarskiego, Obuwicznego i Artykułów Skorzanych)
Vol 8 No 1 January 1953

SO: East European Accessions List, Vol 3, No 8 Aug 1954

KRZEMINSKI, M.
"Marketing problems in the footwear industry." (p.148) PRZEMISL OBUWNI
(Centrales Zarys Przemyslu Garbniarskiego, Obuwianiczy i Angielskich Skrzyni)
Vol 3 No 6, June 1953

30: East European Accessions List Vol 3, No 8, August 1953

KPZEMINSKI, W.

Economy of waste leather in the footwear industry, p. 302. (PRZEGLAD SKORZANY,
Lodz, Vol. 8, no. 12, Dec. 1953.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4, Jan. 1955,
Uncl.

KRZYMINSKI, W.

Concerning the organization of the scale of footwear. p. 60.
(Przegląd Skorzany, Vol. 12, No. 3, Mar. 1957, Krakow, Poland)

SO: Monthly List of East European Accessions (MEAL) LC. Vol. 6, No. 8, Aug. 1957. U_ncl.

ERZEMINSKI, W.

"Some Problems in Making an Isogonic Map of Poland." P. 97.
(GEODEZJA I KARTOGRAFIA, Vol. 3, No. 2, 1954, Warszawa, Poland.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3,
No. 12, Dec. 1954, Uncl.

KRZ. MINSKI, W.

"Meeting at the Geodetic Research Institute." P. 159, (PRZEGŁAD
GEODEZYJNY, Vol. 10, No. 5, May 1954. Warszawa, Poland.)

SO: Monthly List of East European Accessions, (E-EAL), LC, Vol. 3,
No. 12, Dec. 1954, Uncl.

FRZYMIŃSKI, W.

Proper operation of precision measuring instruments. p. 331.
Vol 11, no. 2, Sept. 1955. PRZEGŁAD GNODEZNIY, Warsaw, Poland.

So: Eastern European Accession. Vol 5, no. 4, April 1956

KRZEMINSKI, W.

SCIENCE

Periodicals: PRZEGLAD GEODEZYJNY. Vol. 14, no. 8, Aug. 1958.

KRZEMINSKI, W. The Earth Magnetism Wookroom of the Geodetic and
Cartographic Institute. p. 333.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 4,
April 1959, Unclass.

84955

3,1550(1057,1129,1062)

P/010/60/008/003/003/006
E032/E314

AUTHOR: Krzemiński, W.

TITLE: The Matter Between the Earth and the Sun

PERIODICAL: Postępy astronomii, 1960, Vol. 8, No. 3,
pp. 169 - 170

TEXT: Recent work on interplanetary matter was concerned with the "filling-up of the gap" between the outer regions of the solar corona and the zodiacal light, and the elucidation of the contributions due to gas and dust. So far, observations of the outer parts of the solar corona, which were carried out exclusively during solar eclipses, gave the brightness of the corona up to distances not greater than 2.5° from the Sun, while the measurements on zodiacal light have been extended up to 35° . This is due to the low surface brightness of the objects: when the eclipse is observed at sea level, the brightness of the sky is the same as that of the corona at a distance of 4 solar radii. Polarisation measurements are also difficult owing to strong polarisation of the sky and the irregular background. In order to avoid these difficulties workers at the observatory of Cambridge University have carried out their measurements of

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84955

P/010/60/008/003/003/006

EO32/E314

The Matter Between the Earth and the Sun

the solar corona and zodiacal light from an aeroplane flying at altitudes of about 10 000 m. In this way, it was possible to measure the surface brightness of the corona up to 55 solar radii. Zodiacal light was also investigated up to 22° from the Sun. It was found that at a distance of 1 au from the Sun the density of free electrons was 500 cm⁻³ and the temperature of this electrons gas was of the order of 10⁵ deg. However, polarisation measurements on the Arend-Roland comet (1956h) show that dust particles can produce considerable (about 20%) polarisation. In order to obtain independent data on the gas and dust components (in view of the difficulties of polarisation measurements) spectroscopic methods were used and these showed that the electron-gas density in the neighbourhood of the Earth's orbit is lower than has been supposed so far and is, in fact, 150 electrons/cm³. It was also found that the intensity of the zodiacal light is correlated with explosions on the Sun. It is now assumed that the dust particles which are most active

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84955

P/010/60/008/003/006

E032/E314

The Matter Between the Earth and the Sun

from the optical point of view have a diameter of 2×10^{-3} cm and that the density of such particles is 1 per km^3 . Recent investigations which were carried out with the aid of artificial Earth satellites and rockets have shown that the Earth's atmosphere extends to much greater distances than has been supposed up to now. Thus, the Van Allen belts, consisting of fast electrons, protons and probably heavy ions also extend up to at least 7 Earth radii. It has even been suggested that the Earth's atmosphere extends as far as the Moon. At the same time, the connection between the solar corona and zodiacal light will have an important effect on our ideas about the size of the solar atmosphere. One may say that the Earth and the Sun are "in contact" with each other through their atmospheres.

This is an abridged translation.

There are 2 English references.

Card 3/3

KRZEMINSKI, Wojciech; UHRYNOWSKI, Andrzej

Comparative measurements of the value of the Z and H variometer bases at Swider and Krasna Pachra. Acta geophys Pol no.1/2:160-178 '61.

1. Instytut Geodezji i Kartografii, Warszawa.

S/169/62/000/005/085/093
D228/D307

AUTHORS: Krzemiński, Wojciech, Uhrynowski, Andrzej and Żbikowski, Andrzej

TITLE: Grid of magnetic secular variation points in Poland

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 28, abstract 5G204 (Prace Inst. geod. i kartogr., 8, no. 2, 1961, 93-154)

TEXT: A grid of 20 secular variation points was set up in Poland in 1955. The points are secured by granite columns; no building and field distortion are to be expected in the next few years. The adjacent area's field was examined; the horizontal gradients of Z do not exceed $10\gamma/100$ m. A map of Poland on a scale of 1:4,000,000 is given; it shows the locations of the points and also of the present magnetic observatories in Poland. The geographic coordinates, with a precision down to the tenth part of a minute; the height in meters above sea-level; the approximate values of Z_a ✓

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Grid of magnetic ...

S/169/62/000/005/085/093
D228/D307

and the years of previous observations are adduced for all 20 points. In addition, a copy of the large-scale map, the plan of the area adjoining the point, a description of the surroundings, and a sketch of the external appearance are given for each point. The next observations at all points were made in 1957. D, I, and H were observed. The results of each series of determinations are cited with an indication of the date and the time of the observations for each element separately. The values of seven elements, reduced to the 1958 epoch, are given in a composite table. Observations were made in 1901 at 8 of the 20 points. Maps of the isopores of the summary secular variation from 1901 to 1958 for the elements D, I, and H were also prepared with respect to these 8 points. 15 references. / Abstracter's note: Complete translation. /

Card 2/2

KRZEMINSKI, Wojciech

Means of representing the magnetic declination on topographic maps.
Prace Inst geod 8 no.2:155-165 '61.

(Topographic maps) (Magnetism, Terrestrial)

S/169/62/000/010/070/071
D228/D307

AUTHOR: Krzemiński, Wojciech

TITLE: Observations on the grid of magnetic secular variation points in Poland in 1961

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 10, 1962, 33, abstract 10G238 (Przegl. geod., 34, no. 3, 1962, 131 (Pol.))

TEXT: A grid of 20 secular variation points was established in Poland in 1955; at most points it was the first time that observations have been made. The first round of observations was completed in 1957. The observational program and method and the instruments are briefly described. 11 points at which observations were repeated in the summer of 1961 are listed. A sketch map, which shows all the 20 points, the magnetic observatories, and the temporary variometric stations, is also given.

[Abstracter's note: Complete translation]

Card 1/1

S/035/62/000/010/125/128
A001/A101

AUTHORS: Kasperek, Stanisław, Krzemiński, Wojciech

TITLE: Soviet works in the field of electric-optical range finders

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 45,
abstract 100240 ("Przegl. geod.", 1962, v. 34, no. 3, 132, Polish)

TEXT: The authors describe electric-optical range finders ЗДД-1 (EOD-1)
and СДД-60 (SDD-60) which they saw in Moscow during their stay there in September-October 1961. Brief information is also given on the results of investigations of range finders NASM-2A and CBB-1, which were carried out at TsNIIOAik.

N. M.

[Abstracter's note: Complete translation]

Card 1/1

S/035/62/000/G10/078/128
ACG1/A101

AUTHOR: Krzemiński, Wojciech

TITLE: The 4th International course of linear measurements in Munich

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 10, 1962, 8,
abstract 10G26 ("Przegł. geod.", 1962, v. 34, no. 5, 231 - 232,
Polish)

TEXT: On September 4 - 12, 1961, in Munich was held the 4th International course of linear measurements organized by the Geodetic Institute of the Munich Higher Technical School and the German Geodetic Research Institute. The course was inaugurated by Ledersteger's lecture on using observations of artificial satellites for geodetic purposes. The main contents of the course were reports divided, according to their subjects, into 7 groups: 1. Determination of the modern length unit (2 reports). 2. Electronics and automation in modern designs of instruments (new aerological theodolite of the Askania firm with automatic recording; a series of instruments of an Hungarian optical enterprise for range-finding base polygonometry, and a new type of leveling instrument with compensator; instruments of the Fennbl firm: KT-1 gyroscopic theodolite, theodolite Card 1/2

The 4th International course of...

S/035/62/000/010/078/128
A001/A101

with photorecording and kinotheodolite; a new type of tellurometer, geodimeter of NASM-4 type of the AGA firm, radio range finder-electrotape, comparator of Vyaysyal. 3. Interference and base measurements (4 reports). 4. Velocity of light and time measurement (2 reports). 5. Electro-optical and electronic linear measurements (4 reports, including a report on Finnish 1- and 2-class triangulations with measuring the sides with a tellurometer and investigation of meteorological conditions). 6. Trilateration (2 reports). 7. Precision engineering measurements (2 reports on the construction and operation of synchrotrons in Geneva and Hamburg).

N. Modrinskiy

[Abstracter's note: Complete translation]

Card 2/2

KRZEMINSKI, Wojciech

Isopora of declination in Europe, 1900-1950. Prace Inst geod 9 no.2:
92-99 '62.

KRZEMINSKI, Wojciech; WHRYNOWSKI, Andrzej; TOLTOWSKI, Andrzej

Network of secular magnetic variation stations in Poland.
Pt. 2. Prace inst geod 10 no. 2: 90-122 '63.

ACCESSION NR: AP4040347

P/2505/63/010/002/0090/0122

AUTHOR: Krzeminski, Wojciech (Kshemin'ski, Voytsekh); Uhrzynowski, Andrzej (Ukhry*novski, Andzhey); Zoltowski, Andrzej (Zhultovski, Andzhey)

TITLE: Network of secular magnetic points in Poland. II

SOURCE: Warsaw. Instytut Geodezji i Kartografii. Prace, v. 10, no. 2(22), 1963, 90-122

TOPIC TAGS: secular variation stations, secular magnetic points, Askania Gv 3 field variograph, declinator, QHM declinator, BHZ declinator

ABSTRACT: This paper is one of a series on the results of observations made by the net of secular variation stations in Poland. In 1961 the Askania Gv 3 field variograph stations belonging to the Institute of Geodesy and Cartography and the Geophysical Institute of the Polish Academy of Sciences were used for determination of magnetic elements on secular points. The location of variograph stations and reducing areas is given. During the work of the variograph at certain points observations with the use of the declinators QHM and BHZ were performed. This paper contains the results of determinations of D and H. The re-

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ACCESSION NR: AP4040347

sults of Z determinations will be published in the future. The bases of variometers D and H with reference to individual points were calculated from these measurements for any station. The differences of values D and H for the epoch 1961, 5 between the points and the reference observatory at Swider were determined by comparison of the registrations during the night before and after the measurement days. Any value of Δ in these tables is a mean of three values determined at selected, nondisturbed moments. The yearly means have been obtained as

$$D_{point}^{1961,5} = D_{Swider}^{1961,5} + \Delta_D$$

$$H_{point}^{1961,5} = H_{Swider}^{1961,5} + \Delta_H$$

Tables show values of D and H, Δ_D and Δ_H for the period considered

$$\text{var } D = D_{1961,5} - D_{1960,5}$$

$$\text{var } H = H_{1961,5} - H_{1960,5}$$

$$\delta \Delta_D = \Delta_D^{1961,5} - \Delta_D^{1960,5}$$

$$\delta \Delta_H = \Delta_H^{1961,5} - \Delta_H^{1960,5}$$

and $\delta \Delta_D/\text{year}$ and $\delta \Delta_H/\text{year}$.

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ACCESSION NR: AP4040347

The results were elaborated in form of isopor maps. The mean error of the values thus obtained are assumed to be:

$$\begin{aligned} mD_{1961,3} &= \pm 0,6 \\ m \text{ var } D &= \pm 1,0 \\ mH_{1961,3} &= \pm 2' \\ m \text{ var } H &= \pm 10' \end{aligned}$$

This error is the consequence of the lower accuracy of the H determinations. The isopor maps obtained, when compared with former elaborations, indicate a considerable increase of horizontal gradient of secular changes in recent years. The authors conclude that use of field variograph stations for observations of the net of secular stations is valuable. "We thank for help and cooperation Dr. Z. Malkowski and the group he directs at the Geophysics Laboratory, Polish Academy of Sciences, Z. Kalinowski, director of the Swider Observatory, and Z. Czysk, director of the Hel Observatory." Orig. art. has: 10 graphics and 8 tables.

ASSOCIATION: none

SUBMITTED: 00Mar63

SUB CODE: ES

DATE ACQ: 25Jun64

NO REF SOV: 000

ENCL: 00

OTHER: 00

Card 3/3